



Number of contacts	Standard	3	4	5	5	6	7	7	8	12	14	14	19	
Contact arrangement	IEC 61076-2-106	03-a	04-a	05-a	05-b	06-a	07-a	07-b	08-a	12-a	14-a	14-b	19-a	
Contact arrangement	IEC 60130-9 ¹⁾	yes		no		yes		no		yes				
Rated voltage ²⁾	IEC 60664-1	300 V (100 V)		300 V (63 V)		100 V (32 V)		300 V (63 V)		100 V (32 V)		150 V (32 V) 60 V (32 V)		
Rated voltage	UL 1977	250V								60V				
Rated impulse withstand voltage ²⁾	IEC 60664-1	1500 V (1500 V)		1200 V (800 V)		1500 V (1500 V)		1200 V (800 V)						
Pollution degree ²⁾	IEC 60664-1	1 (3 ³⁾)												
Installation category	IEC 60664-1	I												
Insulation group	IEC 60664-1	II, 400 ≤ CTI < 600												
Current rating	IEC 60512-5-2 UL 1977	10A/+40°C			7A/+40°C					3A/+40°C				
Insulation resistance	IEC 60512-3-1	>10 ¹⁰ Ohm ⁴⁾												
Contact resistance	IEC 60512-2-1	<5mOhm												
Climatic category	IEC 60668-1	40 / 100 / 56												
Temperatur range	IEC 60668-1	-40°C...+100°C / -40°F...+212°F												
Salt spray resistance	DIN IEC 60068-2-11, test Ka	720h												
IP degree	IEC 60529	IP 69K / IP 67 / IP 65 (in mated condition)												
Insertion and withdrawal force	IEC 60512-13-2	25N	30N	35N	35N	50N	55N	55N	60N	50N	50N	50N	60N	
mechanical operation	IEC 60512-9-1	Silver ≥500 mating cycles / Gold ≥1000 mating cycles												
housing material		brass and / or zinc die cast, nickel plated												
dielectric material		thermoplastic												
sealing material		Chloroprene												
contacts		silver or gold plated												
termination technique		solder												
wire gauge		≤0,5mm ² / 20 AWG								≤0,35mm ² / 22 AWG				
flamability		UL 94 V0												
locking system	IEC 60130-9 DIN EN 61076-2-106	metal screw coupling; tightening torque 0,7 - 1,5 Nm												

	19 (19-a)	C091 31H019 101 2 U	C091 31H019 201 2 U
	14 (14-b)	C091 31H114 101 2 U	C091 31H114 201 2 U
	14 (14-a)	C091 31H014 101 2 U	C091 31H014 201 2 U
	12 (12-a)	C091 31H012 101 2 U	C091 31H012 201 2 U
	8 (08-a)	C091 31H008 101 2 U	C091 31H008 201 2 U
	7 (07-b)	C091 31H107 101 2 U	C091 31H107 201 2 U
	7 (07-a)	C091 31H007 101 2 U	C091 31H007 201 2 U
	6 (6-a)	C091 31H006 101 2 U	C091 31H006 201 2 U
	5 (05-b)	C091 31H105 101 2 U	C091 31H105 201 2 U
	5 (05-a)	C091 31H005 101 2 U	C091 31H005 201 2 U
	4 (04-a)	C091 31H004 101 2 U	C091 31H004 201 2 U
	3 (03-a)	C091 31H003 101 2 U	C091 31H003 201 2 U
Contact arrangement View on mating side	Number of contacts (Contact arrangement acc. DIN EN 61076-2-106)	Part number silver plated contacts	Part number gold plated contacts

Gewicht (errechnet) / Calc WT: 0,039 kg	Zul. Abw./Tolerances:	Maßstab / Scale: 2:1 ; 1:1	A3	
Prüfmaß / Testdimension	ISO 2768-c	CUSTOMER DRAWING		
Teileindex / Partindexnumber:		Male cable connector for cable diameter 6-8mm		
Bagatelle change:		Blatt / Sheet 1		
Gez. / Drawn: 26.04.2016 MTOLKSDORF		1 Bl.		
Status: Released		Ers. f. l. Replacement for: M-C091 31HXXX X01 2 U Rev01		
Gepr. / Checked: 11.01.2021 MBERTSCH		Index		
Amphenol Tuchel Industrial GmbH		Änderung / Description		
		Datum / Date		
		Name		

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¹⁾ Edition 2000-05
²⁾ values in brackets are according to DIN EN 61076-2-106
³⁾ designed acc. pollution degree 2, can be used under pollution degree 3 when the rules of IEC 60644-1 are fulfilled
⁴⁾ under operating conditions >10⁸ Ohm
 Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.
 Remark for gold plated contacts:
 In order to avoid brittle inter-metallic connections, gold plated terminals have to be tin-plated in the solder area.
 All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding, particularly the information does not constitute or provide any legal guaranties ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

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